## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

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1. (Currently amended) A voltage controlled oscillator (VCO) comprising: at least one current amplifier for amplifying an input current; [[and]]

a variable resister capacitor (RC) filter for varying the amount of signal delay in the VCO; and

wherein the at least one current amplifier includes a first current amplifier at an input of the VCO and a second current amplifier at an output of the VCO.

- (Original) A VCO as in claim 1, further comprising:
  a filter for removing unwanted signal components from a biasing network.
- 3. (Original) A VCO as in claim 2, wherein the filter is capable of being bypassed using at least one switch.
- 4. (Original) A VCO as in claim 1, wherein the variable RC filter includes at least one variable capacitor for fine tuning the amount of signal delay in the VCO.
- 5. (Original) A VCO as in claim 1, wherein the variable RC filter includes at least one variable capacitor for coarse tuning the amount of signal delay.
- 6. (Original) A VCO as in claim 1, wherein the RC filter includes a composite voltage variable capacitor (VVC) for enabling the RC filter to be finely tuned.

- 7. (Original) A VCO as in claim 6, wherein the composite VVC utilizes a plurality of bias reference voltage and at least one tuning control voltage for adjusting a precise capacitance value.
- 8. (Currently amended) A voltage controlled oscillator (VCO) including a current mode delay cell comprising:
  - a first current amplifier for amplifying an input current;
- a resister capacitor (RC) tuning network for varying the amount of amplification and delay of an output of the first current amplifier; [[and]]
- a second current amplifier for amplifying an output current from the RC tuning network; and

wherein the at least one current amplifier includes a first current amplifier at an input of the VCO and a second current amplifier at an output of the VCO and a second current amplifier at an output of the VCO.

- 9. (Original) A VCO as in claim 8, wherein the RC tuning network includes at least one variable resistor for controlling the gain of the first current amplifier and second current amplifier.
- 10. (Original) A VCO as in claim 8, wherein the RC tuning network includes at least one variable capacitor for fine tuning the amount of signal delay in the delay cell.
- 11. (Original) A VCO as in claim 8, wherein the RC tuning network includes at least one variable capacitor for coarse tuning the amount of signal delay in the delay cell.
- 12. (Original) A VCO as in claim 8, further comprising at least one filter for providing a low noise bias voltage from at least one bias supply.
- 13. (Original) A VCO as in claim 12, wherein the at least one filter is capable of being switchably bypassed from at least one bias supply.

